

ECS/EMD Configuration Change Request

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Page(s)

1. Originator Danny Huang	2. Log Date: 1/29/04	3. CCR #: 04-0073	4. Rev: —	5. Tel: 301 9250837	6. Rm #: 3014C	7. Org. COTS/SW
8. CCR Title: Deliver Tomcat 4.1.24 COTS TE to pathfinder for Synergy IV.						
9. Originator Signature/Date Danny Huang /s/ 1/29/04			10. Class II	11. Type: CCR	12. Need Date: 02/02/04	
13. CCR Sponsor Signature/Date Pamela Johnson /s/ 1/29/04			14. Category of Change: Other		15. Priority: (If "Emergency" fill in Block 27). Emergency	
16. Documentation/Drawings Impacted (Review and submit checklist): 920-TDG-002			17. Schedule Impact: High		18. CI(s) Affected: DPL	
19. Release Affected by this Change: 6A		20. Date due to Customer: 02/02/04		21. Estimated Cost: None - Under 100K		
22. Source Reference: <input type="checkbox"/> NCR (attach) <input type="checkbox"/> Action Item <input type="checkbox"/> Tech Ref. <input type="checkbox"/> GSFC <input checked="" type="checkbox"/> Other: Supports the delivery of Synergy IV to pathfinder						
23. Problem: (use additional Sheets if necessary) Synergy currently uses Tomcat, but Synergy IV needs a new servlet container -- Catalina -- to support new Data Pool capabilities. Tomcat 4.x contains Catalina, but the current version of Tomcat 3.2.3 does not.						
24. Proposed Solution: (use additional sheets if necessary) Install Tomcat 4.1.24 using installation instructions on additional sheet. The package, jakarta_tomcat_4.1.24.tar.gz (cksum:2124540277 size:7233475), is under /data0/CM_INBOX/ on lemmings. The installation path is /usr/ecs/OPS/COTS/tomcat-4.1.24_datapool on g0dps01. No license keys are required.						
25. Alternate Solution: (use additional sheets if necessary) None						
26. Consequences if Change(s) are not approved: (use additional sheets if necessary) The current Tomcat software does not support Synergy IV -- won't be able to support new Data Pool capabilities.						
27. Justification for Emergency (If Block 15 is "Emergency"): Required to meet schedule for delivery of Tomcat 4.1.24 to pathfinder.						
28. Site(s) Affected: <input type="checkbox"/> EDF <input type="checkbox"/> PVC <input type="checkbox"/> VATC <input type="checkbox"/> EDC <input checked="" type="checkbox"/> GSFC <input type="checkbox"/> LaRC <input type="checkbox"/> NSIDC <input type="checkbox"/> SMC <input type="checkbox"/> AK <input type="checkbox"/> JPL <input type="checkbox"/> EOC <input type="checkbox"/> IDG Test Cell <input type="checkbox"/> Other						
29. Board Comments:			30. Work Assigned To:		31. CCR Closed Date:	
32. SCDV CCB Chair (Sign/Date): Byron V. Peters /s/ 1/30/04			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
33. EDF CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS			
34. ECS CCB Chair (Sign/Date):			Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS			

ADDITIONAL SHEET

CCR #: 04-0073 **Rev: — Originator:** Danny Huang

Telephone: 301 925 0837 **Office:** 3014C

Title of Change: Deliver Tomcat 4.1.24 COTS TE to pathfinder for Synergy IV.

Installation Instructions for Tomcat 4.1.24:

1.1 Prerequisites:

- The Host machine must have "tomcat" as a valid uid (user id).
- The delivery tar file, jakarta_tomcat_4.1.24.tar.gz, has been placed in a staging directory accessible by the Data Pool machine
- JRE 1.4.1 on the target Data Pool SUN machines (needed for operation, but not for installation).
- Apache on the target Data Pool SUN machines (needed for operation, but not for installation).
- Estimated installation Time: 30 minutes for a novice operator.

1.2 Uninstall Instructions

None.

1.3 Installation Instructions

The following instructions install tomcat 4.1.24 at /usr/ecs/OPS/COTS/tomcat-4.1.24_datapool. They also install script "tomcat4_datapool OPS" for starting it up and shutting it down.

Do the following as root:

1) Unpack the delivery tar file

```
# cd /<stagingdir>
# gunzip -c jakarta_tomcat_4.1.24.tar.gz | tar xvf -
This will create a subdirectory called 'install/tomcat-4.1.24_datapool'.
```

2) Install tomcat 4.1.24:

```
# cd install/tomcat-4.1.24_datapool
# ./install_tomcat4.sh
This will install tomcat 4.1.24 under /usr/ecs/OPS/COTS/tomcat-4.1.24_datapool/. Also, tomcat startup/shutdown script "tomcat4_datapool OPS" will be installed under /etc/init.d/.
```

1.4 Custom Code Integration

The new Tomcat is for use by Data Pool's Apache with Release 7.00 custom code only. To use the new Tomcat, your Apache httpd.conf file must be modified. A template configuration file, httpd.conf, which contains directives different than those in your existing httpd.conf, can be found in directory /usr/ecs/OPS/COTS/tomcat-4.1.24_datapool/apache_config_for_DPL/. You will have to install and edit this file. Instructions will be provided in custom code 7.00 Release Notes to be provided at later date.

In addition, the mod_jk.conf file in Tomcat 4.1.24 also needs to be adjusted. A template mod_jk.conf is located under /usr/ecs/OPS/COTS/tomcat-4.1.24_datapool/conf/auto/. Instructions for updating it will be provided in custom code 7.00 Release Notes to be provided at later date.

1.5 Interrogation Checkout

First check for the existence of "/usr/ecs/OPS/COTS/tomcat-4.1.24_datapool/RELEASE-NOTES-4.1.txt ". Then execute:

```
# /usr/bin/cat /usr/ecs/OPS/COTS/tomcat-4.1.24_datapool/RELEASE-NOTES-4.1.txt | grep "Tomcat Version"
It returns: "Apache Tomcat Version 4.1".
```

1.6 Back-Out Instructions

To remove tomcat 4.1.24, run the "uninstall_tomcat4.sh" script provided in the staging directory.

```
# cd <stagingdir>/ install/tomcat-4.1.24_datapool
# ./uninstall_tomcat4.sh
It deletes tomcat-4.1.24_datapool from /usr/ecs/OPS/COTS/ and tomcat4_datapool OPS from /etc/init.d.
```